



US006578211B2

(12) **United States Patent**
Tharalson et al.

(10) **Patent No.:** **US 6,578,211 B2**

(45) **Date of Patent:** ***Jun. 17, 2003**

(54) **COMBINATION CO-SLEEPER AND CHANGING TABLE**

(75) **Inventors:** Douglas Tharalson, Agoura, CA (US);
 Diana Tharalson, Agoura, CA (US);
 Bruce Martin, Malibu, CA (US)

(73) **Assignee:** Arms Research Concepts, Inc.

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 88 days.

This patent is subject to a terminal disclaimer.

(21) **Appl. No.:** 09/838,041

(22) **Filed:** Apr. 20, 2001

(65) **Prior Publication Data**

US 2002/0152550 A1 Oct. 24, 2002

(51) **Int. Cl.⁷** A47D 7/04

(52) **U.S. Cl.** 5/93.2; 5/95; 5/98.1; 5/655

(58) **Field of Search** 5/98.1, 95, 96,
 5/93.1, 93.2, 99.1, 424, 426, 97, 655

(56) **References Cited**

U.S. PATENT DOCUMENTS

620,069 A	2/1899	Cobb	
1,138,451 A	5/1915	Bugele	
1,267,244 A	5/1918	McMillan	
1,283,169 A	10/1918	Hasson	
2,632,186 A	3/1953	Berk et al.	
2,691,176 A	10/1954	Saldana	
3,427,666 A *	2/1969	Saxe	5/93.2
5,148,561 A	9/1992	Tharalson et al.	
5,172,435 A	12/1992	Griffin et al.	
5,293,655 A	3/1994	VanWinkle et al.	
5,339,470 A *	8/1994	Shamie	5/99.1
5,349,709 A	9/1994	Cheng	
5,430,899 A *	7/1995	Chisholm	5/93.1

5,548,005 A	8/1996	Kurth et al.	
5,553,336 A	9/1996	Mariol	
5,581,827 A *	12/1996	Fong et al.	5/98.1
5,822,817 A *	10/1998	Carew et al.	5/424
5,845,349 A *	12/1998	Tharalson et al.	5/93.1
5,963,998 A *	10/1999	Carew et al.	5/655
6,112,347 A *	9/2000	Tharalson et al.	5/93.1
6,148,456 A *	11/2000	Tharalson et al.	5/99.1

* cited by examiner

Primary Examiner—Frederick L. Lagman

(74) *Attorney, Agent, or Firm*—David A. Belasco; Belasco Jacobs & Townsley, LLP

(57) **ABSTRACT**

A co-sleeper convertibly adapted for use as a changing table is described. The invention includes a collapsible rigid frame designed to support an enclosure at a predetermined height. The enclosure has padded walls and is sized and shaped to fit over the rigid frame. The back, first and second side walls of the enclosure are of a first height above a floor of the enclosure while the front wall is of a lower height. The floor of the enclosure is designed to be slightly lower than the top surface of a parental bed. A mattress pad is sized and shaped to fit within the enclosure and is segmented to use as a containing cover for the co-sleeper when the frame is collapsed. A strapping member is provided to hold the co-sleeper to the parental bed. A number of variations of this strapping member are provided. Several styles of support members for the enclosure are provided. These include support bars that attach to the rigid frame, a series of hangers that support horizontal bars while hanging from top rails of the frame, and rigid panels and support rods fitted into pockets on the underside of the enclosure. Variants on the invention also include mesh panels for lower portions of the enclosure walls and rigid panels for insertion into pockets in the enclosure walls designed to prevent the formation of unwanted folds in the enclosure walls that could trap a child. The co-sleeper is height adjustable for variations in parental bed height.

53 Claims, 17 Drawing Sheets

